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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/597,960	06/20/2000	D. Amnon Silverstein	10992107-1	5916

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EXAMINER

SAID, MANSOUR M

ART UNIT PAPER NUMBER

2673

DATE MAILED: 11/21/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.  
09/597,960

Applicant(s)  
D. Amnon Silverstein

Examiner  
Mansour M. Said

Art Unit  
2673



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on Aug 29, 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-3, 5-7, and 9-19 is/are pending in the application.
- 4a) Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3, 5-7, and 9-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claims \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some\* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_\_\_\_\_ 6) ☐ Other:

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## **DETAILED ACTION**

### ***Response to Amendment***

1. This office action is in respond to the amendment filed August 29, 2002. Claims 4, 8, and 20 have been canceled.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 1-3, 7, 9-12, 16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Derocher in view of Krishan et al. (5,822,692; hereinafter referred to as Krishan).**

As to claims 1 and 18, Derocher (figures 3-6) teaches a computer mouse (10/10' and (collapsible length mouse, (40)) comprising a motion sensor (column 4, lines 40-54); and a collapsible housing (housing, (figure 6, (42)), (figure 14, (90)), for the motion sensor (column 4, lines 1-67; column 5, lines 1-27; column 6, lines 15-67; and column 7, lines 1-67); and a base (figure 5, (42)) & (figure 19, (112)), and an upper portion (figure 5, (44)) & (figure 19, (114)),

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and , the upper portion an elastic material (flexible rubber-like upper surface, (column 6, lines 32-34) being made of a collapsible material (column 5, lines 1-44; column 6, lines 17-52 and column 7, lines 1-23).

Derocher does not disclose that a PCMCIA slot so that a mouse is sized to fit when the housing is fully collapsed.

However, Krishan (figure 1) teaches a notebook computer with a PCMCIA card (abstract; and column 2, lines 15-27; and column 4, lines 36).

Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to incorporate Krishan's notebook computer having PCMCIA card into Derocher's collapsible portable mouse so as to fit the mouse in to the housing (PCMCIA) to increase the versatility of the device.

As to claim 2, Derocher (figures 4-6, 11-13 & 18) teaches wherein the housing is collapsible into a relatively flat structure (column 6, lines 17-32).

As to claim 3, Derocher teaches wherein the motion sensor includes an optical sensor (column 4, lines 40-53).

As to claim 7, Derocher teaches (figures 4-7) wherein the resilient plastic sheet includes a top portion, a base and inwardly-collapsible sidewalls between the top portion and the base, the sidewalls having the fold lines (column 5, lines 1-67; column 6, lines 32-40 and column 7, lines 1-18).

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As to claim 9, Derocher (figures 4, 18 & 20) teaches a retractable cable (cable (24)), assembly within the housing (column 4, lines 15-39, and column 7, lines 44-53).

As to claim 10, Derocher (figure 2) teaches a transmitter (transceiver, (26)) within the housing (column 4, lines 15-27).

As to claims 11 and 16, Derocher (figures 3-6) teaches a computer mouse (10/10' and (collapsible length mouse, (40)) comprising a motion sensor (column 4, lines 40-54); and a collapsible housing (housing, (figure 6, (42)), (figure 14, (90))), for the motion sensor (column 4, lines 1-67; column 5, lines 1-27; column 6, lines 15-67; and column 7, lines 1-67); and . a base (figure 5, (42)) & (figure 19, (112)), and an upper portion (figure 5, (44)) & (figure 19, (114)), and , the upper portion being made of a collapsible material (column 5, lines 1-44; column 6, lines 17-52 and column 7, lines 1-23).

Derocher does not expressly teach that a housing has a PCMCIA card.

However, Krishan (figure 1) teaches a notebook computer with a PCMCIA card (abstract; and column 2, lines 15-27; and column 4, lines 36).

Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to incorporate Krishan's notebook computer having PCMCIA card into Derocher's collapsible portable mouse so as to connected to a personal computer, personal communicator, and other electronic device (column 4, lines 20-25).

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As to claim 12, Derocher teaches wherein the housing has a deflectable mouse button area; and wherein the mouse further comprising at least one sensor for detecting when the area is deflected; whereby deflecting the area corresponds to clicking a mouse button (column 4, lines 40-67 and column 10, lines 11-12).

**4. Claims 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Derocher in view of Lee as applied to claims 5-6, and further in view of Smith (6,055,592).**

As to claims 13-14, Derocher and Lee teach (figure 5) a bendable strip cantilevered (22) from the housing whereby bending the strip corresponds to clicking a mouse button (mouse buttons (22)) (column 4, lines 15-25).

Derocher and Lee do not expressly disclose that a sensor within the housing for detecting when the strip is bent (mouse click).

However, Smith (figure 1 and 2) teaches click mouse button (102, and a sensor (position sensor, (224)) for detecting when the strip (mouse click area) is bent (column 3, lines 30-67).

Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to utilize smith's input device having position sensor into Derocher's modified system so as to increase the use of the input device.

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**5. Claims 5-6, 15 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Derocher in view of Lee (6,392, 632 B1).**

As to claims 5 and 19, Derocher teaches computer mouse comprising sensor (column 1, lines 5-25, column 4, lines 40-53, and column 10, lines 5-12); collapsible housing for sensor (column 6, lines 32-40 and column 7, lines 1-18, the collapsible housing including a rigid base and an upper portion attached to the base, the upper portion made of ((column 5, lines 40-44) an elastic material (column 6, lines 32-34) that allows the housing to be collapsed (column 5, lines 1-44; column 6, lines 17-52 and column 7, lines 1-23).

Derocher does not disclose a motion sensor.

However, Lee teaches a motion sensor(column 1, lines 5-45).

Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to combine Lee's computer mouse having sensor chip into Derocher system so as to calculate the movement of the dot (column 40-45).

As to claim 6, Derocher teaches computer mouse comprising a sensor (column 1, lines 5-25, column 4, lines 40-53, and column 10, lines 5-12); and a collapsible housing including a resilient plastic sheet having fold lines that allow the housing to collapse into a relatively flat structure (figures 4-6, 11-13 & 18), (column 6, lines 17-52 and column 7, lines 44-67 ).

Derocher does not disclose a motion sensor.

However, Lee teaches a motion sensor(column 1, lines 5-45).

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Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to combine Lee's computer mouse having sensor chip into Derocher system so as to calculate the movement of the dot (column 40-45).

As to claim 15, Derocher teaches computer mouse comprising a motion sensor (column 1, lines 5-25, column 4, lines 40-53, and column 10, lines 5-12); collapsible housing for motion sensor (column 6, lines 32-40 and column 7, lines 1-18).

Derocher does not expressly teach a sensor chip movable.

However, Lee teaches a sensor chip movable (column 1, lines 5-45).

Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to combine Lee's computer mouse having sensor chip into Derocher system so as to calculate the movement of the dot (column 40-45).

**6. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Derocher in view of Krishan as applied to claim 18 above, and further in view of Karidis et al. (6,362,440 B1; hereinafter referred to as Karidis).**

As to claim 17, Derocher and Krishan disclose all claimed limitations in claim 17 except that a flat battery within the housing (column 7, lines 5-16; column 8, lines 1-12).

However, Karidis disclose a laptop computer comprising a flat batteries (column 7, lines 5-16 and column 8, lines 1-12).



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Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to combine Karidis's portable computer device having a flat battery into Derocher's modified system so as allow the profile of the unit to be desirably reduced (column 8, lines 5-9).

### **Response to Arguments**

7. Applicant's arguments with respect to claims 1-3, 5-7, and 9-19 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Chen (5,886,686) disclose a keyboard having an open chamber in a wrist rest thereof adapted for receiving a track ball and a touch input device alternatively.

Klein et al. (6,205,021) disclose a method for operating an input device and a laptop. The input device may be attached to or detached from the laptop computer.

Yatsu et al. (6,369,798 B1) disclose a data processing equipment with detachable pointing device.

Lee (6,219,037 B1) discloses a pointing device provided with two types of input means for a computer system.

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Derocher et al. (6,476,795 B1) disclose a module, capable of insertion and removal from the accessory bay, has a mouse bay and connector for coupling to the mouse. When the mouse is in the mouse bay, a battery in the mouse is recharged.

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS OFFICE ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Mansour M. Said** whose telephone number is **(703) 306-5411**.

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The examiner can normally be reached on Monday through Thursday from 8:30 a.m. to 6:00 p.m. The examiner can also be reached on alternate Friday from 8:30 a.m. to 5:00 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Shalwala Bipin**, can be reached at **(703) 305-4938**.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

**(703) 872-9314 (for Technology Center 2600 only)**

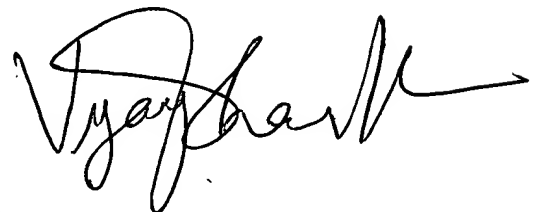
Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist)

**11.** Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer service Office whose telephone number is (703) 306-0377.

Patent Examiner

November 13, 2002

**Mansour M. Said**



**VIJAY SHANKAR  
PRIMARY EXAMINER**